

From glowbugs@theporch.com Sat Nov 23 11:01:37 1996
Return-Path: <glowbugs@theporch.com>
Received: from uro (localhost.theporch.com [127.0.0.1])
by uro.theporch.com (8.8.3/AUX-3.1.1)
with SMTP id KAA24056;
Sat, 23 Nov 1996 10:57:20 -0600 (CST)
Date: Sat, 23 Nov 1996 10:57:20 -0600 (CST)
Posted-Date: Sat, 23 Nov 1996 10:57:20 -0600 (CST)
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Message-Id: <199611231657.KAA24056@uro.theporch.com>
Errors-To: conard@tntech.campus.mci.net
Reply-To: glowbugs@theporch.com
Originator: glowbugs@theporch.com
Sender: glowbugs@theporch.com
Precedence: bulk
From: glowbugs@theporch.com
To: Multiple recipients of list <glowbugs@theporch.com>
Subject: GLOWBUGS digest 361
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@theporch.com
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GLOWBUGS Digest 361

Topics covered in this issue include:

- 1) Printed circuits that glow
by jefffd@coriolis.com (Jeff Duntemann)
- 2) Re: Handbooks please?
by Glenn Finerman <GFINER@nms.com>
- 3) surplus crystal question
by Bob Roehrig <broehrig@admin.aurora.edu>
- 4) Re: Triode mu question.
by Chris Broadbent <cfb@bga.com>
- 5) HB: Magnifying lamp
by sigcom@juno.com (Stephen M Smith)
- 6) RE: Visio schematics in Word files
by jefffd@coriolis.com (Jeff Duntemann)

Date: Fri, 22 Nov 1996 11:24:04 -0700
From: jefffd@coriolis.com (Jeff Duntemann)
To: glowbugs@theporch.com
Subject: Printed circuits that glow
Message-ID: <1.5.4.32.19961122111933.00f3ad88@ntserver.coriolis.com>

Hi gang--

Some time back I had asked about using printed circuit boards in tube circuits. I had enough trouble with the prototype sockets on my 6L6 rig to think the better of using them for anything with an octal base. Miniatures are another matter, and I may play with a design for a regen using 12AX7s and another dual tube (don't have the number here at work) for the audio stage. But that's down the road; I had a superhet to finish first.

The main reason for this message is to follow up on a suggestion made by Doug Dunn, K7YD about printed inductors. I've thought about that a number of times, and never pursued it because I couldn't find any equations for calculating the inductance of printed spirals.

But in thinking of Bob's ongoing advice to keep regen antenna coupling as loose as possible, I went first to the notion of creating a variometer, and from there to the odd notion of a *printed* variometer, consisting of the main tuning coil on the main circuit board, and a coupling coil printed on a small square of board that sits some small distance above the main board, adjustable with nylon spacers so that it can swing and pivot. The tickler coil could be a third printed inductor, set below the main board so that it could be swung toward or away from the main tuning printed coil, thus adjusting the tickler coupling as well. This would be a *far* more versatile coil set than the traditional one-piece six-pin plug-in phenolic solenoid.

Obviously, I'd like to hear if anyone has tried this, but I suspect it would have come up already if someone had. The more important question is: Where are those equations? If anyone knows where any sort of writeup on calculating printed inductors might be, please clue me in. I have nearly every QST since WWII, and big chunks of CQ, 73, and HR as well, along with shelves of radio books. I may already have it and just not know where to look.

Now, *drawing* tight, predictable spirals is another challenge, but the latest release of Visio includes Visual Basic for Applications, which may allow me to generate a spiral by implementing some functions in Basic. So it's something I'm really itching to try.

Thanks much in advance...

--73--

--Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Fri, 22 Nov 1996 14:09:21 -0500

From: Glenn Finerman <GFINER@nms.com>
To: glowbugs@theporch.com
Subject: Re: Handbooks please?
Message-ID: <s295b59f.035@nms.com>

Hello fellow Glowbuggers

Jeff KG7JF wrote;

re> some of the best (or at least the most duplicatable) tube projects
>appeared in ARRL Handbooks of the early 1960s. A lot of parts in
>common use in the 50's (basically pre-made plug-in coils, odd IF cans,
>and such) are long gone now, and by the Sixties were less used.
>My favorite two years are 1964 and 1965. After that, solid state
>began to dominate the book.

I can understand having a hard time with the "odd IF cans" that you mention above if you were going to duplicate a receiver from one of the 50's handbooks, but since my "Glowbugs Cookbook" will be transmitters & VFO's only that won't be an issue. It's very easy to build all sorts of replacements/ subs for inductors and coils in those transmitters, in fact that's part of the fun in my opinion! unless you're going for a "historically correct" project (which I am not) the firebottle transmitters from the 50's handbooks are just as duplicatable as the ones from the 60's. (IMHO)

I'll be looking fer ye firebottle stokers this weekend on the BA/GB freqs (3579 since 40M will probably be crammed with "CQ CONTEST...")

Let's hear those glowbugs!!!!

73.....Glenn N2BJG gfiner@nms.com

Date: Fri, 22 Nov 1996 14:53:06 -0600 (CST)
From: Bob Roehrig <bproehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@theporch.com>, glowbugs <glowbugs@theporch.com>
Subject: surplus crystal question
Message-ID: <Pine.ULT.3.95.961122144642.25171A-100000@admin.aurora.edu>

I have a device (A C.E. AP-2 which I believe is used with their Sideband Slicer) which has a surplus xtal in it. I have seen these mentioned in surplus conversion handbooks and such. They must have been plentiful after the war. Anyway, it is a black plastic holder with a white top marked CHANNEL 20 22.0 MC. On the side it says SC6918A. It is a FT-241A

holder. I know that this rock is down in the hundreds of KC probably.

Anyone know what freq this rock actually is?

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Fri, 22 Nov 1996 15:13:18 -0600 (CST)
From: Chris Broadbent <cfb@bga.com>
To: glowbugs@theporch.com
Subject: Re: Triode mu question.
Message-ID: <199611222113.PAA19708@zoom.bga.com>

> ...<SNIP>
>
> >I forgot to include the most famous 300b:
> >
> >
> >Toobe MU current cost
> >
> >WE 300B ? \$150 to \$450
> >
>
> ...<SNIP>
>
> ...The well-publicized
> reintroduction of the WE300B was apparently a scam.
>
> ...<SNIP>
>
> 73 de NB1I
> John Levreault
>

This is news to me.

In Glass Audio, Westrex has had full page adverts in each issue for about a year and some retailers are advertising that the new devices will be available soon through their outlets (eg, The Parts Connection, Upscale). They are supposed to start shipping the newly made 300B's this December.

Also, I've seen no mention of this on rec.audio.tubes.

Could you expand on what you've heard? It'd be sad if what you say turns out to be true.

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Cheers,

Chris F. Broadbent (KC5VQL)

--

Cheers,

Chris F. Broadbent (KC5VQL)

Date: Sat, 23 Nov 1996 11:15:19 EST
From: sigcom@juno.com (Stephen M Smith)
To: glowbugs@theporch.com
Subject: HB: Magnifiying lamp
Message-ID: <19961123.045749.8287.2.sigcom@juno.com>

Group, The latest Damark mail order catalog has a 22 Watt circular flourescent lamp with magnifiying lens and 45 inch "floating arm" extension for \$40. The lens is 3 diopter magnification (typical, I like 5 diopter) and from the picture in the catalog looks decent. I'm thinking of getting a couple for my service shop. White: B-8870-419592, Black: B-8870-410996. At this time, shipping is free. 800-729-9000. (usual disclaimers)73.....Steve, WB6TNL (ex-WN6TNL) :-)

Date: Sat, 23 Nov 1996 09:43:48 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: gpewitt@execpc.com
Cc: glowbugs@theporch.com
Subject: RE: Visio schematics in Word files
Message-ID: <1.5.4.32.19961123093909.00efc04c@ntserver.coriolis.com>

At 09:14 AM 11/23/96 PST, you wrote:

>It works beautifully. How do you get it into Word?
>How much does Visio cost?
>Thanks Gary

>From Word I selected Insert|Object and then selected the Create from File tab, then entered the name of the Visio file. That's all it takes!

Visio comes in several different "sizes." The one I use is Visio Technical

4.1, which can be had "on the street" (typical mail order shop) for about \$279. I use it at work for many things unrelated to radio or electronics, so I have the advantage that the company bought it for me, but considering what I've been able to do with it (I drew a plan of my house in an evening, create all my overhead foils for seminars and speeches, draw ER diagrams for database projects, and technical figures for my programming books) I'd say I'd have easily bought it on my own. It comes with all those beautiful schematic symbols. (The ones for the tubes that you see I created, but the latest release adds tubes to the lineup, mostly because I called them and begged two years ago!)

For those who just tuned in, Visio is the tool I use to draw all my schematics and printed circuit patterns. It's easily the finest "draw" program I've used in my entire career, which goes back to the CP/M era. The Technical version comes with a very nice set of schematic symbols that includes everything you'd need for (modern) radio schematics, along with a lot of really obscure symbols, including one for "exploding squib"!! (I would guess that's what you put inside of top-secret spy radios to make them blow up in the enemy's face...)

BTW, if anyone here ever decides to use Visio, I have a custom stencil of my own tube symbols that I will be happy to give anyone. It contains about twice the number of different types as the one Visio created for the 4.1 release, and I add new ones all the time. (I just added a 5U4-style rectifier symbol, for example.)

--73--

--Jeff Duntemann KG7JF
Scottsdale, Arizona

End of GLOWBUGS Digest 361
